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## 1 Identification of the substance/preparation and of the company/undertaking

- · Product details
- · Trade name: Xenum Chain Pro
- · Article number: 18-00000-4970
- · Application of the substance / the preparation Lubricant
- · Manufacturer/Supplier:

SWF - Xenum Steenkaaistraat 17 9200 Dendermonde Belgium T:+32 52 223 808 F: +32 52 225 160 E: info@xenum.eu W: www.xenum.eu

· Further information obtainable from: Research & Development

## 2 Composition/information on ingredients

- · Chemical characterization
- · Description: Active substance with propellant

· Dangerous	components
-------------	------------

· Dangerous components:			
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light	Xn, Xi, F, N; R 11-38-51/53-65-67	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	2.5-10%
CAS: 109-66-0 EINECS: 203-692-4	pentane	Xn, F+, N; R 12-51/53-65-66-67	2.5-10%
Additional information	tions. For the wording of the listed risk rhr	assas mater to spation 16	

• Additional information: For the wording of the listed risk phrases refer to section 16.

## **3 Hazards identification**

#### · Hazard description:



Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

## · Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

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GR

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## Material Safety Data Sheet According to 91/155 EEC (2001/58/EEC)

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#### **Trade name: Xenum Chain Pro**

#### · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

#### **4** First-aid measures

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- $\cdot$  After eye contact: Rinse opened eye for several minutes under running water.
- $\cdot$  After swallowing: Do not induce vomiting; call for medical help immediately.

#### **5** Fire-fighting measures

- Suitable extinguishing agents:
- Water haze

Fire-extinguishing powder Carbon dioxide

Alcohol resistant foam

· For safety reasons unsuitable extinguishing agents: Water with full jet

• Protective equipment: Mount respiratory protective device.

#### 6 Accidental release measures

· Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

 $\cdot$  Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting: Ensure adequate ventilation.

## 7 Handling and storage

# · Handling:

## · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

- · Information about fire and explosion protection:
- Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

#### · Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Observe official regulations on storing packagings with pressurized containers.
- $\cdot$  Information about storage in one common storage facility:
- Observe official regulations on storing packagings with pressurized containers.

# • Further information about storage conditions:

- Keep receptacle tightly sealed.
- Do not seal receptacle gas tight.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.

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· Additional information	about design of technical facilities: No further data; see item 7.
	values that require monitoring at the workplace:
106-97-8 butane	
WEL Short-term value:	
	1450 mg/m <sup>3</sup> , 600 ppm 0.1% of buta-1.3-diene)
· Additional information	: The lists valid during the making were used as basis.
· Personal protective equ	ipment:
<ul> <li>General protective and</li> </ul>	
Keep away from foodstu	
	soiled and contaminated clothing
	s and at the end of work.
Do not inhale gases / fun	
Avoid contact with the sl Avoid contact with the ev	
• <b>Respiratory protection</b> :	
	e or low pollution use respiratory filter device. In case of intensive or longer exposure
use self-contained respira	
	protective device in case of insufficient ventilation.
Filter AX/P2	
• Protection of hands:	
up m	
Protective glo	ves
Solvent resistant gloves	
	material on consideration of the penetration times, rates of diffusion and the
· Material of gloves Nitril	le rubber, NBR
· Penetration time of glov	
The exact break trough to observed.	time has to be found out by the manufacturer of the protective gloves and has to b
· Eye protection:	
Tightly sealed	l goggles
• Body protection: Use pr	rotective suit.

<b>General Information</b>		
Form:	Aerosol	
Colour:	According to product specification	
Odour:	Characteristic	
Change in condition		
Melting point/Melting ran	ge: Undetermined.	
Boiling point/Boiling range		
Flash point:	-97°C	
Ignition temperature:	200.0°C	
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#### Trade name: Xenum Chain Pro

	(Contd. of page 3)
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.8 Vol %
Upper:	8.5 Vol %
· Vapour pressure at 20°C:	2100.0 hPa
· Density at 20°C:	0.72500 g/cm <sup>3</sup>
· Solubility in / Miscibility with	1
water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	60.0 %

## 10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- $\cdot$  **Dangerous reactions** No dangerous reactions known.
- $\cdot$  **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

#### 12 Ecological information

- · Ecotoxical effects:
- · Remark: Toxic for fish
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms

## **13 Disposal considerations**

- · Product:
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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**Trade name: Xenum Chain Pro** 

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

Land transport ADR/	RID (cross-border)
ADR/RID class:	2 5F Gases.
Danger code (Kemler)	: 23
UN-Number:	1950
Packaging group:	-
Hazard label	2.1
Description of goods:	1950 AEROSOLS
Maritime transport IN	ÍDG:
IMDG Class:	2.1
UN Number:	1950
Label	2.1
Packaging group:	-
	F-D,S-U
Marine pollutant:	No
Proper shipping name	: AEROSOLS
Air transport ICAO-T	I and IATA-DGR:
ICAO/IATA Class:	2.1
UN/ID Number:	1950
Label	2.1
Packaging group:	-
0 00 1	: AEROSOLS, flammable

## 15 Regulatory information

#### · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

## $\cdot$ Code letter and hazard designation of product:



Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

#### · Risk phrases:

- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

#### · Safety phrases:

- 2 Keep out of the reach of children.
- 23 Do not breathe aerosol.
- 24 Avoid contact with skin.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

## $\cdot$ Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

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### Trade name: Xenum Chain Pro

Buildup of explosive mixtures possible without sufficient ventilation.

· National regulations:

· Technical instructions (air):



· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

- · VOC-CH 60.00 %
- **VOC-EU** 435.0 g/l
- · Danish MAL Code 5-3

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant R-phrases

- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Research & Development

- · Contact: Peter Tossyn
- $\cdot \ \textbf{Sources} \ \textbf{st}$